A MULTILAYERED PROSTHESIS MATERIAL AND A METHOD OF PRODUCING SAME

Patent number:	WO8503445
Publication date:	1985-08-15
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Classification:	
- international:	A61L27/00; A61F2/02
- european:	A61L27/34; A61F2/06; A61F13/00; C08J3/09B; A61L15/26; A61L15/42E; A61L15/64; A61L27/56; A61L27/58; B29C67/06
Application number:	WO1985SE00018 19850117
Priority number(s):	SE19840000567 19840203

Also published as:

- EP0171411 (A1)
- US4770664 (A1)
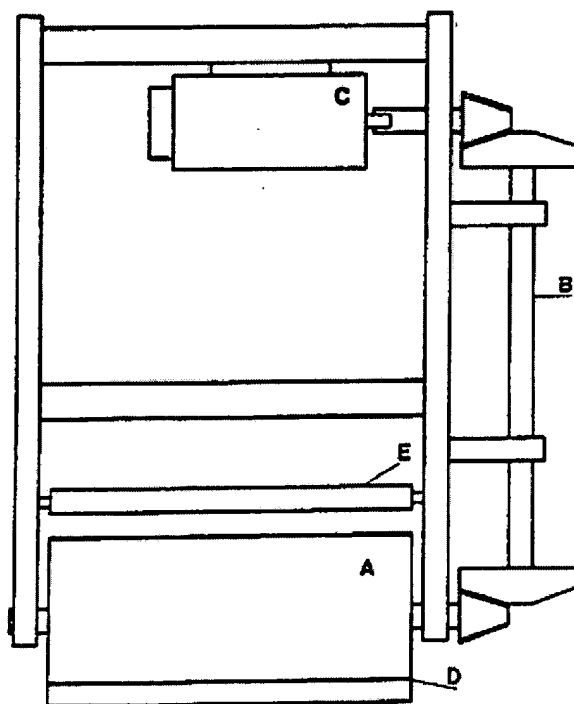- EP0171411 (B1)
- SE452404 (B)
- IT1184146 (B)

Cited documents:

- EP0092200
- DE2802295

Abstract not available for WO8503445
Abstract of corresponding document: **US4770664**

PCT No. PCT/SE85/00018 Sec. 371 Date Sep. 13, 1985 Sec. 102(e) Date Sep. 13, 1985 PCT Filed Jan. 17, 1985 PCT Pub. No. WO85/03444 PCT Pub. Date Aug. 15, 1985. A method producing a multilayered prosthesis material for use with a living body, said material showing mechanical compliance vis-à-vis soft body tissue and possessing biocompatibility. The method comprising the steps: (a) preparing a copolymer solution using a solvent; (b) coating a substrate with a uniform thickness of said solution; (c) precipitating the initial coating resulting from step (b) to form a physically stable structure having pores substantially uniformly distributed therein by treating the coating with a precipitating solution which is miscible in said solvent but functioning as a precipitating non-solvent with respect to the copolymer; and (d) repeating steps (a)-(c), as required to form the multilayered material, characterized by preparing in step (a) a solution containing less than 5% by weight of polymer. Also disclosed is a multilayered prosthesis material possessing biocompatibility and showing mechanical compliance vis-à-vis soft body tissue, comprising several porous layers of block copolyurethane interconnected by linking fibers integral with the respective adjacent layers.